

IX. (silent) DBCA로 DB 생성 + applyRU

1. DB 설치를 위한 Response file 준비

1. oracle 계정으로 접속하여 dbca 설치를 위한 response file이 있는 위치로 이동합니다.

```
su - oracle
cd $ORACLE_HOME/assistants/dbca
cp dbca.rsp dbca_install.rsp
vi dbca_install.rsp
```

```
[SONNY@oracle:~]$ cd $ORACLE_HOME/assistants/dbca
[SONNY@oracle:dbca]$ ls
dbca.rsp  dbca.sh  doc  jlib  templates
[SONNY@oracle:dbca]$
[SONNY@oracle:dbca]$ cp dbca.rsp dbca_install.rsp
[SONNY@oracle:dbca]$
[SONNY@oracle:dbca]$ ls
dbca.rsp  dbca.sh  dbca_install.rsp  doc  jlib  templates
[SONNY@oracle:dbca]$
[SONNY@oracle:dbca]$ vi dbca_install.rsp
```

2. dbca response file을 준비합니다.

```
#####
##                                DBCA response file                                ##
#####

#-----
responseFileVersion=/oracle/assistants/rspfmt_dbca_response_schema_v19.0.0

# 전역 데이터베이스 이름 지정
gdbName=SONNY

# 시스템 식별자(System identifier)로 Instance 이름 지정
sid=SONNY

# 데이터베이스 구성 유형 지정(SI, RAC, RACONENODE)
databaseConfigType=SI

# 컨테이너 데이터베이스로 생성할지 여부 지정
createAsContainerDatabase=false

# 템플릿의 이름을 지정
templateName=New_Database.dbt

# SYS 사용자의 비밀번호 지정
```

```

sysPassword=____

# SYSTEM 사용자의 비밀번호 지정
systemPassword=_____

# 데이터 파일이 저장될 디렉토리 경로 지정
datafileDestination=+DATA/{DB_UNIQUE_NAME}/

# 저장 유형 지정(데이터베이스가 생성될 스토리지 지정)
storageType=ASM

# DB가 사용할 ASM 디스크 그룹 이름 지정
diskGroupName=+DATA/{DB_UNIQUE_NAME}/

# 데이터베이스 기본 문자 세트 지정
characterSet=K016MSWIN949

# 국가 문자 집합 지정
nationalCharacterSet=AL16UTF16

# 데이터베이스 유형 지정
databaseType=MULTIPURPOSE

# 자동 메모리 관리 사용 여부 지정
automaticMemoryManagement=FALSE

# totalMemory: 고정된 양의 메모리를 MB 단위로 할당합니다.(물리 메모리의 50% 할당)
totalMemory=4096

```

```

[SONNY@oracle:~]$ cd $ORACLE_HOME/assistants
[SONNY@oracle:assistants]$
[SONNY@oracle:assistants]$ ls
bin dbca dbua jlib mesg netca rconfig
[SONNY@oracle:assistants]$
[SONNY@oracle:assistants]$
[SONNY@oracle:assistants]$ cd dbca
[SONNY@oracle:dbca]$
[SONNY@oracle:dbca]$ ls
dbca.rsp dbca.sh dbca_install.rsp doc jlib templates
[SONNY@oracle:dbca]$
[SONNY@oracle:dbca]$
[SONNY@oracle:dbca]$
[SONNY@oracle:dbca]$ cd templates/
[SONNY@oracle:templates]$ ls
Data_Warehouse.dbc General_Purpose.dbc New_Database.dbt Seed_Database.ctl Seed_Database.dfb pdbseed.dfb pdbseed.xml
[SONNY@oracle:templates]$
[SONNY@oracle:templates]$
[SONNY@oracle:templates]$
[SONNY@oracle:templates]$
[SONNY@oracle:templates]$ pwd
/u01/app/oracle/product/dbhome_1/assistants/dbca/templates

```

3 설치를 진행합니다.

oracle 유저로 수행

```

dbca -silent -createDatabase -responseFile $ORACLE_HOME/assistants/dbca/dbca_install.r
sp -ignorePrereqFailure

```

```

[SONNY@oracle:~]$ dbca -silent -createDatabase -responseFile $ORACLE_HOME/assistants/d
bca/dbca_install.rsp -ignorePrereqFailure
Prepare for db operation
4% complete
Registering database with Oracle Restart
7% complete
Creating and starting Oracle instance
8% complete
11% complete
Creating database files
12% complete
16% complete
Creating data dictionary views
17% complete
20% complete
21% complete
24% complete
25% complete
26% complete
29% complete
Oracle JVM
36% complete
42% complete
49% complete
51% complete
Oracle Text
52% complete
55% complete
56% complete
Oracle Multimedia
69% complete
Oracle OLAP
70% complete
71% complete
72% complete
73% complete
Oracle Spatial
74% complete
82% complete
Completing Database Creation
85% complete
86% complete
87% complete
Executing Post Configuration Actions
100% complete
Database creation complete. For details check the logfiles at:
  /u01/app/oracle/cfgtoollogs/dbca/SONNY.
Database Information:
Global Database Name:SONNY
System Identifier(SID):SONNY
Look at the log file "/u01/app/oracle/cfgtoollogs/dbca/SONNY/SONNY.log" for further de
tails.

```

```
[SONNY@oracle:~]$ dbca -silent -createDatabase -responseFile $ORACLE_HOME/assistants/dbca/dbca_install.rsp -ignorePrereqFailure
Prepare for db operation
4% complete
Registering database with Oracle Restart
7% complete
Creating and starting Oracle instance
8% complete
11% complete
Creating database files
12% complete
16% complete
Creating data dictionary views
17% complete
20% complete
```

```
[SONNY@oracle:~]$ dbca -silent -createDatabase -responseFile $ORACLE_HOME/assistants/dbca/dbca_install.rsp -ignorePrereqFailure
Prepare for db operation
4% complete
Registering database with Oracle Restart
7% complete
Creating and starting Oracle instance
8% complete
11% complete
Creating database files
12% complete
16% complete
Creating data dictionary views
17% complete
20% complete
21% complete
24% complete
25% complete
26% complete
29% complete
Oracle JVM
36% complete
42% complete
49% complete
51% complete
Oracle Text
52% complete
55% complete
56% complete
Oracle Multimedia
69% complete
Oracle OLAP
70% complete
71% complete
72% complete
73% complete
Oracle Spatial
74% complete
82% complete
Completing Database Creation
85% complete
86% complete
87% complete
Executing Post Configuration Actions
100% complete
Database creation complete. For details check the logfiles at:
/u01/app/oracle/cfgtoollogs/dbca/SONNY.
Database Information:
```

```
Database creation complete. For details check the logfiles at:
/u01/app/oracle/cfgtoollogs/dbca/SONNY.
Database Information:
Global Database Name:SONNY
System Identifier(SID):SONNY
Look at the log file "/u01/app/oracle/cfgtoollogs/dbca/SONNY/SONNY.log" for further details.
```

설치 완료

4. 설치 후 확인 작업

1. alert log 확인

```
[SONNY@oracle:~]$ cd /u01/app/oracle/diag/rdbms/sonny/SONNY/trace
[SONNY@oracle:trace]$ vi alert_SONNY.log
```

```
[SONNY@oracle:~]$ cd /u01/app/oracle/diag/rdbms/sonny/SONNY/trace
[SONNY@oracle:trace]$ vi alert_SONNY.log
```

```
Completed: ALTER DATABASE MOUNT /* db agent *//* {0:0:1385} */
ALTER DATABASE OPEN /* db agent *//* {0:0:1385} */
```

```
Completed: ALTER DATABASE MOUNT /* db agent *//* {0:0:600} */
ALTER DATABASE OPEN /* db agent *//* {0:0:600} */
Smart fusion block transfer is disabled:
instance mounted in exclusive mode.
```

```
CSQ0 started with pid=31, OS id=40823
Completed: ALTER DATABASE OPEN /* db agent *//* {0:0:600} */
2024-06-21T19:07:18.207564+09:00
```

```
=====
Dumping current patch information
=====
Patch Id: 36233263
Unique Patch Id: 25638263
Patch Description: Database Release Update : 19.23.0.0.240416 (36233263)
Patch Apply Time: 2024-06-21T16:16:33+09:00
Patch Type: Release Update

Patch Id: 36240578
Unique Patch Id: 25625545
Patch Description: OCW RELEASE UPDATE 19.23.0.0.0 (36240578)
Patch Apply Time: 2024-06-21T16:23:59+09:00
Patch Type: Release Update
=====
```

2. sqlplus 접속 후 instance open 확인

```
[SONNY@oracle:~]$ sqlplus / as sysdba

SQL*Plus: Release 19.0.0.0.0 - Production on Fri Jun 21 19:15:17 2024
Version 19.23.0.0.0

Copyright (c) 1982, 2023, Oracle. All rights reserved.

Connected to:
Oracle Database 19c Enterprise Edition Release 19.0.0.0.0 - Production
Version 19.23.0.0.0

SQL>
SQL> select instance_name, status from v$instance;

INSTANCE_NAME      STATUS
-----
SONNY              OPEN
```

```
[SONNY@oracle:~]$ sqlplus / as sysdba

SQL*Plus: Release 19.0.0.0.0 - Production on Fri Jun 21 19:15:17 2024
Version 19.23.0.0.0

Copyright (c) 1982, 2023, Oracle. All rights reserved.

Connected to:
Oracle Database 19c Enterprise Edition Release 19.0.0.0.0 - Production
Version 19.23.0.0.0

SQL>
SQL> select instance_name, status from v$instance;

INSTANCE_NAME      STATUS
-----
SONNY              OPEN
```

3. crsctl 상태 확인

```
crsctl stat res -t
```

```
[+ASM@grid:~]$ crsctl stat res -t

-----
Name                Target  State        Server                State details
-----
Local Resources
-----
ora.DATA.dg
      ONLINE  ONLINE      son                   STABLE
ora.LISTENER_SHM.lsnr
      ONLINE  ONLINE      son                   STABLE
ora.asm
      ONLINE  ONLINE      son                   Started,STABLE
ora.ons
      OFFLINE OFFLINE      son                   STABLE
-----
Cluster Resources
-----
ora.cssd
      1        ONLINE  ONLINE      son                   STABLE
ora.diskmon
      1        OFFLINE OFFLINE
ora.evmd
      1        ONLINE  ONLINE      son                   STABLE
ora.sonny.db
      1        ONLINE  ONLINE      son                   Open,HOME=/u01/app/oracle/product/dbhome_1,STABLE
-----
```

4. 패치 상태 확인

```
[root@SON ~]# su - oracle
[SONNY@oracle:~]$
[SONNY@oracle:~]$
[SONNY@oracle:~]$ sqlplus / as sysdba
```

```
SQL*Plus: Release 19.0.0.0.0 - Production on Fri Jun 21 19:17:24 2024
Version 19.23.0.0.0
```

Copyright (c) 1982, 2023, Oracle. All rights reserved.

Connected to:

Oracle Database 19c Enterprise Edition Release 19.0.0.0.0 - Production
Version 19.23.0.0.0

```
SQL>
SQL> set lines 150
SQL> col STATUS for a10
SQL> col DESCRIPTION for a55
SQL> col TARGET_VERSION for a15
SQL> col action for a10
SQL>
SQL> select status, action, description, target_version, patch_id from dba_registry
_sqlpatch;
```

STATUS	ACTION	DESCRIPTION	TARGET_VERSION	TARGET_PATCH_ID
SUCCESS	APPLY	Database Release Update : 19.23.0.0.240416 (36233263)	19.23.0.0.0	36233263

```
SQL> select status, action, description, target_version, patch_id from dba_registry_sqlpatch;
STATUS      ACTION      DESCRIPTION                                     TARGET_VERSION  PATCH_ID
-----
SUCCESS     APPLY       Database Release Update : 19.23.0.0.240416 (36233263) 19.23.0.0.0     36233263
```

- opatch lspatches

```
[SONNY@oracle:~]$ opatch lspatches
36240578;OCW RELEASE UPDATE 19.23.0.0.0 (36240578)
36233263;Database Release Update : 19.23.0.0.240416 (36233263)
```

OPatch succeeded.

```
[SONNY@oracle:~]$
```

```
[SONNY@oracle:~]$ exit
```

logout

```
[root@SON ~]# su - grid
```

```
[+ASM@grid:~]$
```

```
[+ASM@grid:~]$ opatch lspatches
```

```
36460248;TOMCAT RELEASE UPDATE 19.0.0.0.0 (36460248)
36383196;DBWLM RELEASE UPDATE 19.0.0.0.0 (36383196)
36240578;OCW RELEASE UPDATE 19.23.0.0.0 (36240578)
36233343;ACFS RELEASE UPDATE 19.23.0.0.0 (36233343)
36233263;Database Release Update : 19.23.0.0.240416 (36233263)
```

OPatch succeeded.

```

[SONNY@oracle:~]$ opatch lspatches
36240578;OCW RELEASE UPDATE 19.23.0.0.0 (36240578)
36233263;Database Release Update : 19.23.0.0.240416 (36233263)

OPatch succeeded.
[SONNY@oracle:~]$
[SONNY@oracle:~]$ exit
logout
[root@SON ~]# su - grid
[+ASM@grid:~]$
[+ASM@grid:~]$ opatch lspatches
36460248;TOMCAT RELEASE UPDATE 19.0.0.0.0 (36460248)
36383196;DBWLM RELEASE UPDATE 19.0.0.0.0 (36383196)
36240578;OCW RELEASE UPDATE 19.23.0.0.0 (36240578)
36233343;ACFS RELEASE UPDATE 19.23.0.0.0 (36233343)
36233263;Database Release Update : 19.23.0.0.240416 (36233263)

OPatch succeeded.

```

orc vote 15기가 ⇒ 5기가씩 3개로 ⇒ normal

data 10기가 ⇒ 알아서 파티셔닝 ⇒ external

reco 5기가

$70 + 40(\text{rac니까}) = 110$

이중화 할 것 ⇒ DATA 1개 RECO 1개

LISTENER ERROR(TNS-12543: TNS:destination host unreachable).